> Table 1 provides a number of sample references which correlate the role of ingiogenesis in numerous disease states.

Table 1

Disease State

Publication defining role of angiogenesis in disease state

atherosclerosis

PCT International Publication Number WO91/10424, Published July 25, 1991; Kahlon et al, Angiogenesis in Atherosclerosis Can. J. Cardio.

(1992) (abstract)

Tumors

Moulton, K.S. Et al. Angiogenesis in the huPBL-SCID Model of Human Transplant Rejection. Transplantation Vol. 67 No. 12 Jun 1999 pp.1626-1631 (see page 1630, col. 2, lines 1-2 of the second paragraph); European Application Number 89100714.8, Published July 26, 1989.

solid turnors

PCT International Publication Number WO91/10424, Published July 25, 1991

benign tumors

Locci, M. Et al. Angiogenesis: A New Diagnostic Aspect of Obstetric and Gynecologic Echography. Journal of Perinatal Medicine Vol. 21 No. 6 1993 pp.

453-473 (page 469, abstract)

metastatic tumors

Mahadevan, V. Et al. Metastasis and Angiogenesis. Acta Oncolgica Vol. 29 No. 1 1990 pp. 97-103 (page

97, abstract)

hemangiomias

PCT International Publication Number WO91/10424, Published July 25, 1991

nerve cell diseases

Siedlak, S.K. Et al. Basic Fibroblast Growth Factor Binding Is a Marker for Extracellular Neurofibrillary Tangles in Alzheimer Disèase. The Journal of Histochemistry and Cytochemistry: Official Journal of the Histochemistry Society Vol.

37 No. 7 July 1991 pp. 899-904.

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acoustic neuroma or

Eldridge, R. Central Neurofibromatosis with Bilateral Acoustic Neuroma. Advances in

neurofibroma

Neurology Vol. 29 1981 pp. 57-65 (page 62-63, each

paragraph)

diseases of the eye

See those listed for claim 65, as well as those on the copy of the attached chart filed for a related patent application 09/126,542 (copies of those references

not attached)

retinopathy of prematurity

Penn, J.S. Et al. Variable Oxygen Exposure Causes Preretinal Neovascularization in the Newborn Rat. Investigative Ophthalmology & Visual Science Vol. 34 No. 3 Mar. 1993 pp. 576-585 (page 584, col. 2,

final paragraph)

diabetic retinopathy

PCT International Publication Number W091/10424, Published July 25, 1991

corneal graft rejection

Cursiefen, C. Et al. Angiogenesis in Corneal

Diseases Histopathologic Evaluation of 254 Human

Corneal Buttons with Neovascularization. Comea

Vol. 17 No. & Nov. 1998 pp. 611-613

neovascular glaucoma

PCT International Publication Number

WO91/10424, Published July 25, 1991

retrolental fibroplasias

PCT International Publication Number

WO91/10424, Published July 25, 1991.

Trachoma

European Application Number 89100714.8,

Published July 26, 1989

Degeneration

Penfold et al., Age-related macular degeneration:

ultrastructural studies of the relationship of

leucocytes to angiogenesis, Graefes Arch Clin Exp

Ophthalmol 1987; 225(1):70-6 (abstract)

inflammation

Moulton, K.S. Et al. Angiogenesis in the huPBL-SCID Model of Human Transplant Rejection.

Transplantation Vol. 67 No. 12 Jun 1999 pp 1626-

1631 (page 1626,col. 1, line 1)

pxogenic granulomas

vascular malfunctions

Almeida, B.M. Et al. The Distribution of LH39
Basement Membrane Epitope in the Tumour Stroma
of Oral Squamous Cell Carcinomas. The Journal of
Pathology Vol. 166 No. 4 Apr. 1992 pp. 369-374
(page 369, last four lines of Summary); European
Application Number 89100714.8, Published July 26,
1989

Arnold, F. Et al. Angiogenesis in Wound Healing. Pharmacology & Therapeutics Vol. 52 No. 3 Dec. 1991 pp. 407-422; Poole, T.J. Et al. Developmental Angiogenesi: Quail Embryonic Vasculature. Scanning Micrscopy Vol. 2 No. 1 Mar. 1998 pp. 443-448; European Application Number 89100714.8, Rublished July 26, 1989

Arnold, F. Et al. Angiogenesis in Wound Healing. Pharmacology & Therapeutics Vol. 52 No. 3 Dec. 1991 pp. 407-422 (page 407, col. 2, line 1 of the second paragraph; page 412, section 2.4.5 "Negative Controls on Angiogenesis;" page 416, section 3.4 "Overhealing").

Locci, M. Et al. Angiogenesis: A New Diagnostic Aspect of Obstetric and Gynecologic Echography. Journal of Perinatal Medicine Vol. 21 No. 6 1993 pp. 453-473 (page 453, second column, line 8)

three articles showing that factors inducing gout are IL-1, 2, and 6: Hashizume, K. Et al. A Role of Interleukin-1 (IL-1) in Crystal Induced Arthritis. Advances in Experimental Medicine and Biology Vol. 253A 1989 pp. 219-224; Campen, D.H. Et al. Serum Levels of Interleukin-2 Receptor and Activity of Rheumatic Diseases Characterized by Immune System Activation. Arthritis and Rheumatism Vol. 31 No. 11 Nov. 1988 pp. 1358-1364; Brozik, M. Et. Al. Interleukin 6Levels in Synovial Fluids of Patients with Different Arthritides: Correlation with Local Igm Rheumatoid Factor and Systemic Acute Phase Protein Production. The Journal of Rheumatology Vol. 19 No. 1 Jan. 1992 pp. 63-68; and five articles

abnormal wound healing

inflammatory disorders

Gout, gouty arthritis

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Sub C1

con

showing that IL-1, 2, 4, 6 and 8 stimulate angiogenesis: Fan, T.P. Et al. Stimulation of Angiogenesis by Substance P and Interleukin-1 in the Rat and its Inhibition by NK_1 or Interleukin-1 receptor antagonists. British Journal of Pharmacology Vol. 110 No. 1 Sept. 1993 pp. 43-49; Cozzolino, F. Et al. Interferon-alpha and Interleukin 2 Synergistically Enhance Basic Fibroblast Growth Factor Synthesis and induce Release, Promoting Endothelial Cell Growth. The Journal of Clinical Investigation Vol.91 No. 6 Jun 1993 pp.2504-2512; Wojta, J. Et al. Interleukin-4 Stimulates Expression of Urokinase-Type-Plasminogen Activator in Cultured Human Foreskin Microvascular Endothelial Cells. Blood Vol. 81 No. 12 June 15, 1993 pp. 3285-3292; Sun, W.H. Et al. In Vivo and in vitro Characteristics of Interleukin 6-transfected B16 Melanoma Cells. Cancer Research Vol. 52 No. 19 Oct. 1, 1992 pp. 5412-5415; Hu, D.E. Et al. Interleukin-8 Stimulates Angiogenesis in Rats. Inflammation Vol. 17 No. 2 Apr. 1993 pp. 135-143

rheumatoid arthritis

PCT International Publication Number WO91/10424, Published July 25, 1991

psoriasis

PCT International Publication Number W091/10424, Published July 25, 1991

immune disorders

PCT International Publication Number WO91/10424, Published July 25, 1991

Behcet's Syndrome

Aydintug, A.O. et al. Antibodies to Endothelial Cells in Patents with Behcet's Disease. Clinical Immunology and Immunopathology Vol. 67 No. 2 May 1993 pp.157-162 (page 157, entire first col.; page 160, col. 2, second full paragraph)

Osler-Weber-Rendu disease

Burke et al., Pulmonary arteriovenous malformation: a critical update. Am. Rev. Respir. Dis. Vol 134(2) Aug 1986 334-9 (abstract); Van Cutsem et al., Estrogen-progeserone treatment of Osler-Wever-Rendu disease. J. Clin Gastroenterol Vol 10(6):676-9 Dec. 1988 (abstract)

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Sub

system complications from

Female Reproductive

undesired angiogenesis

Locci, M. Et al. Angiogenesis: A New Diagnostic Aspect of Obstetric and Gynecologic Echography. Journal of Perinatal Medicine Vol. 21 No. 6 1993 pp. 453-473 (page 453, col. 1, line 25 to the end of col. 2); Logan, A. Angiogenesis. Lancet Vol. 341 No. 8858 Jun 1993 pp. 1467-1468 (page 1468, col. 1,

first three full paragraphs)

Ovulation, implantation of a

blastula, menstruation,

menopause

Locci, M. Et al. Angiogenesis: A New Diagnostic Aspect of Obstetric and Gynecologic Echography.

Journal of Perinatal Medicine Vol. 21 No. 6 1993 pp.

453-473 (page 453, col. 1, line 25 to the end of col. 2); Logan, A. Angiogenesis. Lancet Vol. 341 No.

8858 Jun 1993 pp. 1467-1468 (page 1468, col. 1,

first three full paragraphs)

Osteoporosis

Schaub et al, Novel agents that promote bone regeneration, Curr Opin Biotechnol, 1991 Dec;

2(6):868-71 (abstract)

Please replace the third (3rd) paragraph on page 12, entitled Example 4, with the following paragraph:

Table 2 illustrates the inhibitory effects on tubulin polymerization in vitro exhibited by estradiol or estradiol derivatives, plant anti-mitotic compounds such as colchicine, combretastatin A-4 or other plant compounds. The method is given in Example

Please replace the fourth (4th) paragraph on page 12, entitled Example 5, with the following paragraph:

R3

Table 3 lists estrogens, estradiol or estradiol derivatives that inhibit colchicine binding to tubulin, by the method given in Example 3.